

PE NUMBER: 0604779F

UNCLASSIFIED

PE TITLE: Joint Interoperability Tactical Command/Control

RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)								DATE <b>February 1999</b>		
BUDGET ACTIVITY <b>5 - Engineering and Manufacturing Development</b>				PE NUMBER AND TITLE <b>0604779F Joint Interoperability Tactical Command/Control</b>					PROJECT <b>2189</b>	
COST (\$ In Thousands)	FY 1998 Actual	FY 1999 Estimate	FY 2000 Estimate	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	Cost to Complete	Total Cost
2189 JINTACCS	4,738	5,687	5,837	5,877	5,939	6,035	6,160	6,288	Continuing	TBD
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0	0

**(U) A. Mission Description**

JINTACCS is a Joint Staff directed program for the development and maintenance of tactical information exchange configuration items (CIs) and operational procedures. This program enables and ensures tactical command and control (C2)/weapons systems to be interoperable within an Air Force (AF), a joint (two or more US services or agencies) or combined (US and allied) environment. The program entails the compatibility and interoperability of C3 systems including tactical intelligence for joint or combined operations through the development and management of a joint architecture, tactical information exchange requirements process, interface definitions, message text formats (MTFs), Tactical Digital Information Links (TADILs), Variable Message Formats (VMF), and other combat data link standards. This includes the coordination of all combat data link and MTF certification testing and configuration management of message standard CIs under one program element. This project ensures C3/weapons system interoperability among all the CINCs, DoD agencies, and the Services. Interoperability certification testing is a pre-production requirement in accordance with DoDD 4630.5 and DoDI 4630.8. The JINTACCS program includes: joint development, interoperability certification, message standard implementation, and configuration management (CM) of US Message Text Formatting (USMTF) CIs; joint development, interoperability certification, message standard implementation, and CM. Link 11A/B, 4, 16, etc. (TADILs A/B, C, J, etc.). Air Force platforms/systems participating in this program include: Airborne Warning and Control System (AWACS); Airborne Battlefield Command and Control Center (ABCCC); Modular Control Element (MCE); Air Operations Center (AOC); Joint Surveillance Target Attack Radar System (JSTARS); F-15C/D; F-15E; F-16; F-22; RC-135; Regional/Sector Operations Control Center (R/SOCC), Caribbean Basin Radar Network (CBRN); Command & Control Information Processing System (C2IPS); Space Based Infrared System (SBIRS); Iceland Air Defense System (IADS); Air Support Operations Center (ASOC); and Tactical Air Control Parties (TACP). Air Force JINTACCS supports the Assistant Secretary of Defense (ASD) directive on harmonization of US and NATO messages (e.g., ATO and ACO), and fulfills the Link 16 General Officer Steering Group direction to develop and manage the Air Force JINTACCS CM Plan for TADIL (LINK) and MTF Message Standards (AFJCMP-TMMS).

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(U) FY 1998 (\$ in thousands)

- (U) \$ 1,132 Interoperability Certification
  - CAF Certification planned for the MCE P3I, E-3, F-15C, CSCS, and ADSI
  - Joint Certification planned for the JSTARS, E-3, and ABCCC
- (U) \$ 1,260 Message Text Formats
- (U) \$ 2,346 TADIL Management
  - Support multiple multi TADIL & VMF meetings and working groups
  - Consultations regarding implementation and interoperability with the F-16, E-8, AOC, and the ABL.
  - Consultations regarding software updates and interoperability with the F-15C.
- (U) \$ 4,738 Total

  

(U) FY 1999 (\$ in thousands)

- (U) \$ 1,064 Interoperability Certification
  - CAF Certification planned for JSTARS, and E-3.
  - Joint Certification planned for MCE P3I, JSTARS, E-3, F-15C, and ADSI.
- (U) \$ 1,641 Message Text Formats
- (U) \$ 2,822 TADIL Management
  - Support multiple multi TADIL & VMF meetings and working groups
  - Consultations regarding implementation and interoperability with the F-16, and the E-8.
  - Consultations regarding software updates and interoperability with the E-3.
- (U) \$ 160 - Identified as a source for SBIR
- (U) \$ 5,687 Total

  

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PROJECT <b>2189</b>		
<p>(U) <u>FY 2000 (\$ in thousands)</u></p> <ul style="list-style-type: none"> <li>- (U) \$ 1,229 Interoperability Certification <ul style="list-style-type: none"> <li>- Specific platforms for FY00 will be determined based on initial Link 16 message implementation, software upgrade, and system modification schedules.</li> </ul> </li> <li>- (U) \$ 2,995 Message Text Formats</li> <li>- (U) \$ 1,613 TADIL Management <ul style="list-style-type: none"> <li>- Support multiple multi TADIL &amp; VMF meetings and working groups</li> <li>- Consultations regarding implementation and interoperability with the F-16.</li> <li>- Consultations regarding software updates and interoperability with the F-15C, E-3, E-8, ABCCC, CRC/CRE, AOC, and the F-15E.</li> </ul> </li> <li>- (U) \$ 5,837 Total</li> </ul> <p>(U) <u>FY 2001 (\$ in thousands)</u></p> <ul style="list-style-type: none"> <li>- (U) \$ 489 Interoperability Certification <ul style="list-style-type: none"> <li>- Specific platforms for FY01 will be determined based on initial Link 16 message implementation, software upgrade, and system modification schedules.</li> </ul> </li> <li>- (U) \$ 1,886 Message Text Formats</li> <li>- (U) \$ 3,502 TADIL Management <ul style="list-style-type: none"> <li>- Support multi TADIL &amp; VMF meetings and working groups</li> <li>- Consultations regarding implementation and interoperability with the F-16.</li> <li>- Consultations regarding software updates and interoperability with the F-15C, E-3, E-8, ABCCC, CRC/CRE, AOC, F-15E and the ABL.</li> </ul> </li> <li>- (U) \$ 5,877 Total</li> </ul> <p>(U) <b>B. Budget Activity Justification:</b>  This program is in budget activity 5 - Engineering and Manufacturing Development, because it is designed to improve the interoperability of Tactical Command and Control (C2) Systems used in support of joint operations.</p>		
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<p>(U) <b>C. <u>Program Change Summary (\$ in Thousands)</u></b></p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 40%;"></th> <th style="width: 10%; text-align: center;"><u>FY 1998</u></th> <th style="width: 10%; text-align: center;"><u>FY 1999</u></th> <th style="width: 10%; text-align: center;"><u>FY 2000</u></th> <th style="width: 10%; text-align: center;"><u>FY 2001</u></th> <th style="width: 20%; text-align: center;"><u>Total Cost</u></th> </tr> </thead> <tbody> <tr> <td>(U) Previous President's Budget (FY1999)</td> <td style="text-align: right;">4,972</td> <td style="text-align: right;">5,823</td> <td style="text-align: right;">5,943</td> <td style="text-align: right;">5,988</td> <td style="text-align: center;">TBD</td> </tr> <tr> <td>(U) Appropriated Value</td> <td style="text-align: right;">5,929</td> <td style="text-align: right;">5,823</td> <td></td> <td></td> <td></td> </tr> <tr> <td>(U) Adjustments to Appropriated Value</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td style="padding-left: 20px;">a. General Congressional Reduction</td> <td style="text-align: right;">-827</td> <td style="text-align: right;">-136</td> <td></td> <td></td> <td></td> </tr> <tr> <td style="padding-left: 20px;">b. Small Business Innovative Research</td> <td style="text-align: right;">-130</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td style="padding-left: 20px;">c. Omnibus and other Above Threshold Reprogramming</td> <td style="text-align: right;">-34</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td style="padding-left: 20px;">d. Below Threshold Reprogramming</td> <td style="text-align: right;">-200</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>(U) Adjustments to Budget Years Since FY99 PB</td> <td></td> <td></td> <td style="text-align: right;">-106</td> <td style="text-align: right;">-111</td> <td></td> </tr> <tr> <td>(U) Current Budget Submit/ FY2000 PB</td> <td style="text-align: right;">4,738</td> <td style="text-align: right;">5,687</td> <td style="text-align: right;">5,837</td> <td style="text-align: right;">5,877</td> <td style="text-align: center;">TBD</td> </tr> </tbody> </table> <p>(U) Significant Program Changes: None  FY99: \$160 Identified as a source for SBIR</p> <p style="margin-top: 20px;">(U) <b>D. <u>Other Program Funding Summary (\$ in Thousands)</u></b>    Not Applicable</p> <p style="margin-top: 20px;">(U) <b>E. <u>Acquisition Strategy:</u></b>  As the Air Force lead agent for a jointly directed program, JINTACCS provides level of effort technical support for increasing interoperability of AF programs through message text and data link standards implementation.</p>							<u>FY 1998</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>Total Cost</u>	(U) Previous President's Budget (FY1999)	4,972	5,823	5,943	5,988	TBD	(U) Appropriated Value	5,929	5,823				(U) Adjustments to Appropriated Value						a. General Congressional Reduction	-827	-136				b. Small Business Innovative Research	-130					c. Omnibus and other Above Threshold Reprogramming	-34					d. Below Threshold Reprogramming	-200					(U) Adjustments to Budget Years Since FY99 PB			-106	-111		(U) Current Budget Submit/ FY2000 PB	4,738	5,687	5,837	5,877	TBD
	<u>FY 1998</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>Total Cost</u>																																																												
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<p><b>(U) F. <u>Schedule Profile</u></b>            Support for platform implementation is an ongoing activity. For each platform, support begins as indicated below and continues based on expected message changes and software upgrades.</p>																
		<u>FY 1998</u>				<u>FY 1999</u>				<u>FY 2000</u>				<u>FY 2001</u>		
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
<p><b>(U) <u>Platform Message Implementation</u></b></p>																
<p><b>F-16</b> - Begin continuing consultations on baseline Implementation/Interoperability * </p>																
<p><b>E-8</b> - Begin continuing consultations on baseline Implementation/Interoperability * </p>																
<p><b>AOC</b> - Begin continuing consultations on baseline Implementation/Interoperability * </p>																
<p><b>ABL</b> - Begin continuing consultations on baseline Implementation/Interoperability * </p>																
<p><b>F-15C</b> - Interoperability consultation for Software upgrades. * X X </p>																
<p><b>F-16</b> - Interoperability consultation for Software upgrades. * X </p>																
<p><b>E-3</b> - Interoperability consultation for Software upgrades. * X X </p>																
<p><b>E-8</b> - Interoperability consultation for Software upgrades. X X </p>																
<p><b>ABCCC</b> - Interoperability consultation for Software upgrades. X X </p>																
<p><b>CRC/CRE</b> - Interoperability consultation for Software upgrades. X X </p>																
<p><b>AOC</b> - Interoperability consultation for Software upgrades. X X </p>																
<p><b>F-15E</b> - Interoperability consultation for Software upgrades. X X </p>																
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						<u>FY 1998</u>				<u>FY 1999</u>				<u>FY 2000</u>				<u>FY 2001</u>			
						1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
(U) <u>Interoperability Certification</u>																					
(Passed Joint and CAF Interoperability)																					
- MCE P3I																					
CAF																					
Joint																					
- JSTARS																					
CAF																					
Joint																					
- E-3 AWACS																					
CAF																					
Joint																					
- F-15C																					
CAF																					
Joint																					
- CSCS																					
CAF																					
- ABCCC																					
Joint																					
- ADSI																					
Joint																					
(U) <u>OPFAC INSTALL/INTEGRATION</u>																					
- F-15E																					
Begin																					
Complete																					
- JSTARS																					
Complete																					
* Denotes completed event																					
X Denotes planned event																					

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RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)						DATE February 1999					
BUDGET ACTIVITY <b>5 - Engineering and Manufacturing Development</b>				PE NUMBER AND TITLE <b>0604779F Joint Interoperability Tactical Command/Control</b>			PROJECT <b>2189</b>				
<b>(U) A. <u>Project Cost Breakdown (\$ in Thousands)</u></b>											
					<u>FY 1998</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>			
(U) Certification Testing					1,132	1,064	1,229	489			
(U) Message Text Formats					1,260	1,641	2,995	1,886			
(U) TADILs Management					2,346	2,822	1,613	3,502			
(U) Identified as a source for SBIR						160					
(U) Total					4,738	5,687	5,837	5,877			
<b>(U) B. <u>Budget Acquisition History and Planning Information (\$ in Thousands)</u></b>											
Contractor or Government	Contract Method/Type	Award or Obligation	Performing Activity	Project Office	Total Prior to FY 1998	Budget FY 1998	Budget FY 1999	Budget FY 2000	Budget FY 2001	Budget to Complete	Total Program
<u>Activity</u>	<u>Vehicle</u>	<u>Date</u>	<u>EAC</u>	<u>EAC</u>	<u>FY 1998</u>	<u>FY 1998</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>Complete</u>	<u>Program</u>
Identified as a source for SBIR							160				
<u>Product Development Organizations</u>											
None					0	0	0	0	0	0	0
<u>Support and Management Organizations</u>											
MITRE	CPAF	OCT 72			32,950	2,278	2,626	2,626	3,075	Cont	TBD
B3H	CPFF	MAY 97			1,162	1,332	1,564	1,647	1,978	Cont	TBD
COMPTEK	CPAF	OCT 92			3,166	562	0	0	0	Cont	TBD
HTI	CPAF	OCT 94			1,300	0	0		0	0	1,300
Prog Office	Various	Various			243	0	273	335	335	Cont	TBD
AF Participating	PO/616	OCT 97			676	566	1,064	1,229	489	Cont	TBD
Test Unit (PTU)											
<u>Test and Evaluation Organizations</u>											
None					0	0	0	0	0	0	0
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<b>(U) B. <u>Budget Acquisition History and Planning Information Continued (\$ in Thousands)</u></b>										
<b>Government Furnished Property:</b> None										
Item <u>Description</u>	Contract Method/Type or Funding <u>Vehicle</u>	Award or Obligation <u>Date</u>	Delivery <u>Date</u>	Total Prior to <u>FY 1998</u>	Budget <u>FY 1998</u>	Budget <u>FY 1999</u>	Budget <u>FY 2000</u>	Budget <u>FY 2001</u>	Budget to <u>Complete</u>	Total <u>Program</u>
<u>Product Development Property</u> N/A										
<u>Support and Management Property</u> N/A										
<u>Test and Evaluation Property</u> N/A										
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